

INTERNATIONAL SEARCH REPORT

PCT/IB 03/03100

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 G09G3/34 G09G3/20

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 G09G

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, PAJ, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	<p>EP 1 132 884 A (NGK INSULATORS LTD) 12 September 2001 (2001-09-12) paragraph '0010! - paragraph '0013!; figure 74 paragraphs '0030!-'0032! paragraphs '0038!-'0040! paragraph '0274! - paragraph '0278!; figures 28-30 paragraphs '0309!-'0313! claim 12</p> <p style="text-align: center;">--- -/--</p>	1-9

☒ Further documents are listed in the continuation of box C.☒ Patent family members are listed in annex.

* Special categories of cited documents:

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- * & * document member of the same patent family

Date of the actual completion of the international search

6 November 2003

Date of mailing of the international search report

14/11/2003

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer

Wolff, L

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP 1 052 614 A (NGK INSULATORS LTD) 15 November 2000 (2000-11-15) paragraphs '0007!-'0009! paragraphs '0065!-'0070! paragraph '0100! - paragraph '0104! paragraph '0119! - paragraph '0123! paragraph '0161! figures 1,2,28-30,37-40 -----	1-9
Y	US 5 771 321 A (STERN ERNEST) 23 June 1998 (1998-06-23)	1,2,9
X	abstract column 1, line 10 - line 15; figures 1,2,8,10-12,14 column 2, line 49 - line 60 column 5, line 54 -column 6, line 12 column 22, line 20 - line 46 column 24, line 8 - line 45 column 25, line 10 -column 26, line 67 column 35, line 3 - line 52 -----	3-8
Y	US 4 962 374 A (OHBA TOSHIHIRO ET AL) 9 October 1990 (1990-10-09) abstract; figure 3 -----	1,2,9

INTERNATIONAL SEARCH REPORT

PCT/IB 03/03100

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
EP 1132884	A	12-09-2001	JP 2001324960 A	22-11-2001
			EP 1132884 A2	12-09-2001
			EP 1211661 A1	05-06-2002
			WO 0167428 A1	13-09-2001
			JP 2001324961 A	22-11-2001
			US 2001024178 A1	27-09-2001
			US 2001041489 A1	15-11-2001
EP 1052614	A	15-11-2000	EP 1052614 A2	15-11-2000
			JP 2001324959 A	22-11-2001
US 5771321	A	23-06-1998	CA 2241823 A1	28-08-1997
			EP 0888573 A2	07-01-1999
			JP 2000505911 T	16-05-2000
			WO 9731288 A2	28-08-1997
US 4962374	A	09-10-1990	JP 1906707 C	24-02-1995
			JP 6034152 B	02-05-1994
			JP 62143096 A	26-06-1987
			DE 3643149 A1	19-06-1987
			GB 2186730 A ,B	19-08-1987

10/524U/U

Rec'd PCT/PTO 09 FEB 2005

WO 2004/017293 A1



For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.